

# Hi-MO 5m

(G2)

## LR5-66HPH 495~515M

- Based on M10-182mm wafer, best choice for ultra-large power plants
- Advanced module technology delivers superior module efficiency
  - M10 Gallium-doped Wafer • Integrated Segmented Ribbons • 9-busbar Half-cut Cell
- Excellent outdoor power generation performance
- High module quality ensures long-term reliability



12-year Warranty for  
Materials and Processing



25-year Warranty for Extra  
Linear Power Output

### Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730

ISO9001:2015: ISO Quality Management System

ISO14001: 2015: ISO Environment Management System

ISO45001: 2018: Occupational Health and Safety

TS62941: Guideline for module design qualification and type approval

# LONGi



**21.7%**  
MAX MODULE  
EFFICIENCY

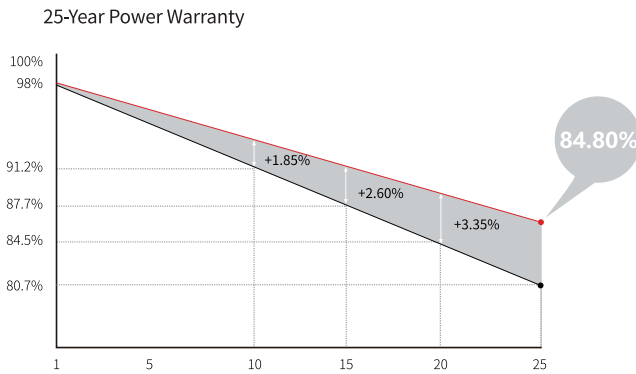
**0~3%**  
POWER  
TOLERANCE

**<2%**  
FIRST YEAR  
POWER DEGRADATION

**0.55%**  
YEAR 2-25  
POWER DEGRADATION

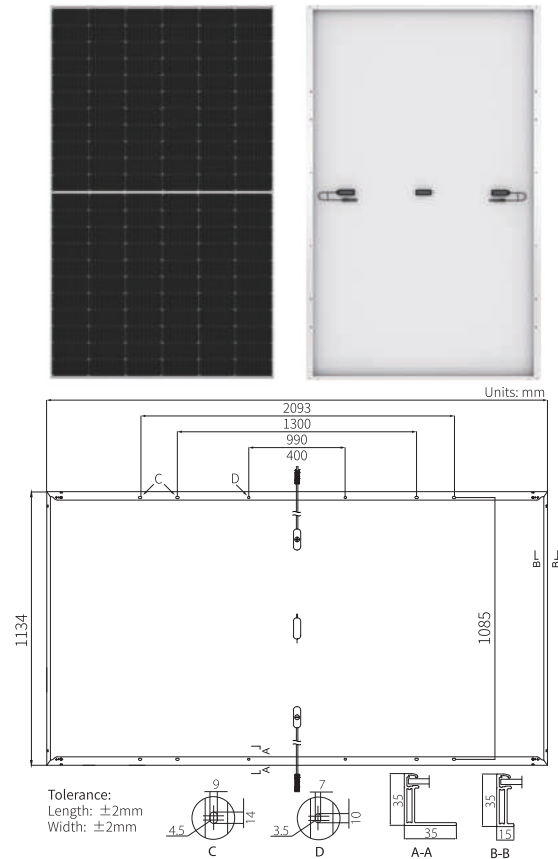
**HALF-CELL**  
Lower operating temperature

## Additional Value



## Mechanical Parameters

|                  |                                                                     |
|------------------|---------------------------------------------------------------------|
| Cell Orientation | 132 (6×22)                                                          |
| Junction Box     | IP68, three diodes                                                  |
| Output Cable     | 4mm <sup>2</sup> , +400, -200mm/±1400mm<br>length can be customized |
| Glass            | Single glass, 3.2mm coated tempered glass                           |
| Frame            | Anodized aluminum alloy frame                                       |
| Weight           | 25.3kg                                                              |
| Dimension        | 2093×1134×35mm                                                      |
| Packaging        | 31pcs per pallet / 155pcs per 20' GP / 682pcs per 40' HC            |



## Electrical Characteristics

STC : AM1.5 1000W/m<sup>2</sup> 25°C NOCT : AM1.5 800W/m<sup>2</sup> 20°C 1m/s Test uncertainty for Pmax: ±3%

| Module Type                      | LR5-66HPH-495M |       | LR5-66HPH-500M |       | LR5-66HPH-505M |       | LR5-66HPH-510M |       | LR5-66HPH-515M |       |
|----------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| Testing Condition                | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  |
| Maximum Power (Pmax/W)           | 495            | 370.0 | 500            | 373.7 | 505            | 377.5 | 510            | 381.2 | 515            | 384.9 |
| Open Circuit Voltage (Voc/V)     | 45.40          | 42.69 | 45.55          | 42.83 | 45.70          | 42.97 | 45.85          | 43.11 | 46.00          | 43.25 |
| Short Circuit Current (Isc/A)    | 13.82          | 11.17 | 13.90          | 11.24 | 13.97          | 11.30 | 14.05          | 11.36 | 14.13          | 11.42 |
| Voltage at Maximum Power (Vmp/V) | 38.23          | 35.51 | 38.38          | 35.65 | 38.53          | 35.79 | 38.68          | 35.93 | 38.83          | 36.07 |
| Current at Maximum Power (Imp/A) | 12.95          | 10.42 | 13.03          | 10.48 | 13.11          | 10.55 | 13.19          | 10.61 | 13.27          | 10.67 |
| Module Efficiency(%)             | 20.9           |       | 21.1           |       | 21.3           |       | 21.5           |       | 21.7           |       |

## Operating Parameters

|                                    |                               |
|------------------------------------|-------------------------------|
| Operational Temperature            | -40°C ~ +85°C                 |
| Power Output Tolerance             | 0~3%                          |
| Voc and Isc Tolerance              | ±3%                           |
| Maximum System Voltage             | DC1500V (IEC/UL)              |
| Maximum Series Fuse Rating         | 25A                           |
| Nominal Operating Cell Temperature | 45±2°C                        |
| Protection Class                   | Class II                      |
| Fire Rating                        | UL type 1 or 2<br>IEC Class C |

## Mechanical Loading

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Front Side Maximum Static Loading | 5400Pa                               |
| Rear Side Maximum Static Loading  | 2400Pa                               |
| Hailstone Test                    | 25mm Hailstone at the speed of 23m/s |

## Temperature Ratings (STC)

|                                 |            |
|---------------------------------|------------|
| Temperature Coefficient of Isc  | +0.050%/°C |
| Temperature Coefficient of Voc  | -0.265%/°C |
| Temperature Coefficient of Pmax | -0.340%/°C |